

Chollas Creek Metals TMDL

Presented by

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Public Workshop Objectives

- Review Problem Statement
- Review Numeric Targets
- Discuss Source Analysis
 - Copper
 - Zinc
 - Lead

TMDL Schedule

- Problem Statement - March 2000
- Numeric Target - March 2000
- Source Analysis - June 2000
- Pollutant Load Allocations - August 2000
- Margin of Safety - August 2000
- Linkage Analysis - August 2000
- Technical TMDL - January 2001

Chollas Creek Metals Problem Statement

- Storm water exceeding criteria
 - NTR (Copper, zinc, lead, and cadmium)
 - CTR (Copper, zinc, and lead)
- Toxicity (Copper and zinc)

Chollas Creek Metals Numeric Targets

■ California Toxics Rule

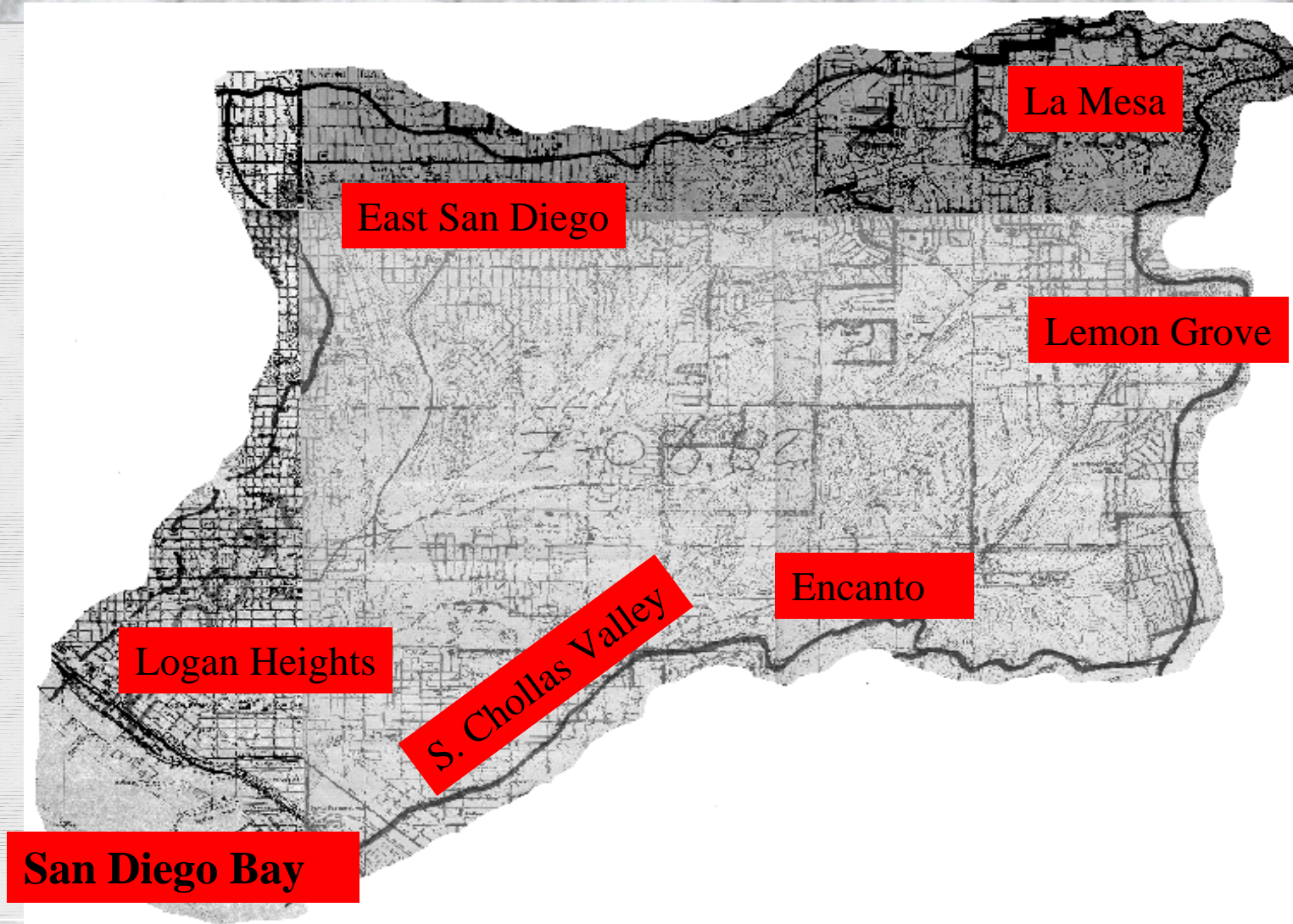
- Approved April 28, 2000
- CMC (for 100 mg/L hardness)
 - Copper 13 ug/L
 - Zinc 120 ug/L
 - Lead 65 ug/L
- CCC (for 100 mg/L hardness)
 - Copper 9 ug/L
 - Zinc 120 ug/L
 - Lead 2.5 ug/L

■ Convert to mass-based numeric targets ?

Chollas Creek Metals Source Analysis

- Copper
- Zinc
- Lead

Chollas Creek Watershed



Santa Clara Valley Study

- 1992 NPS study of heavy metals in urban watershed storm water runoff (Woodward-Clyde 1992)
 - Identified major classes of sources
 - Atmospheric deposition
 - Residential
 - Automotive
 - Industrial
 - Potable water supply

Potential Significant Copper Sources

- Automotive (50%)
 - Break-pad wear
- Potable water supply (15%)
 - Algicides
 - Copper piping
- Atmospheric deposition (25%)
 - Diesel fuel

Potential Significant Zinc Sources

- Automotive (66%)
 - Tire wear (60%)
 - Illegal motor oil dumping (6%)
- Potable water supply (20%)
 - Corrosion inhibitors
- Atmospheric deposition (13%)
 - Diesel fuel

Potential Significant Lead Sources

- Atmospheric deposition
 - Diesel exhaust
 - Industrial sources

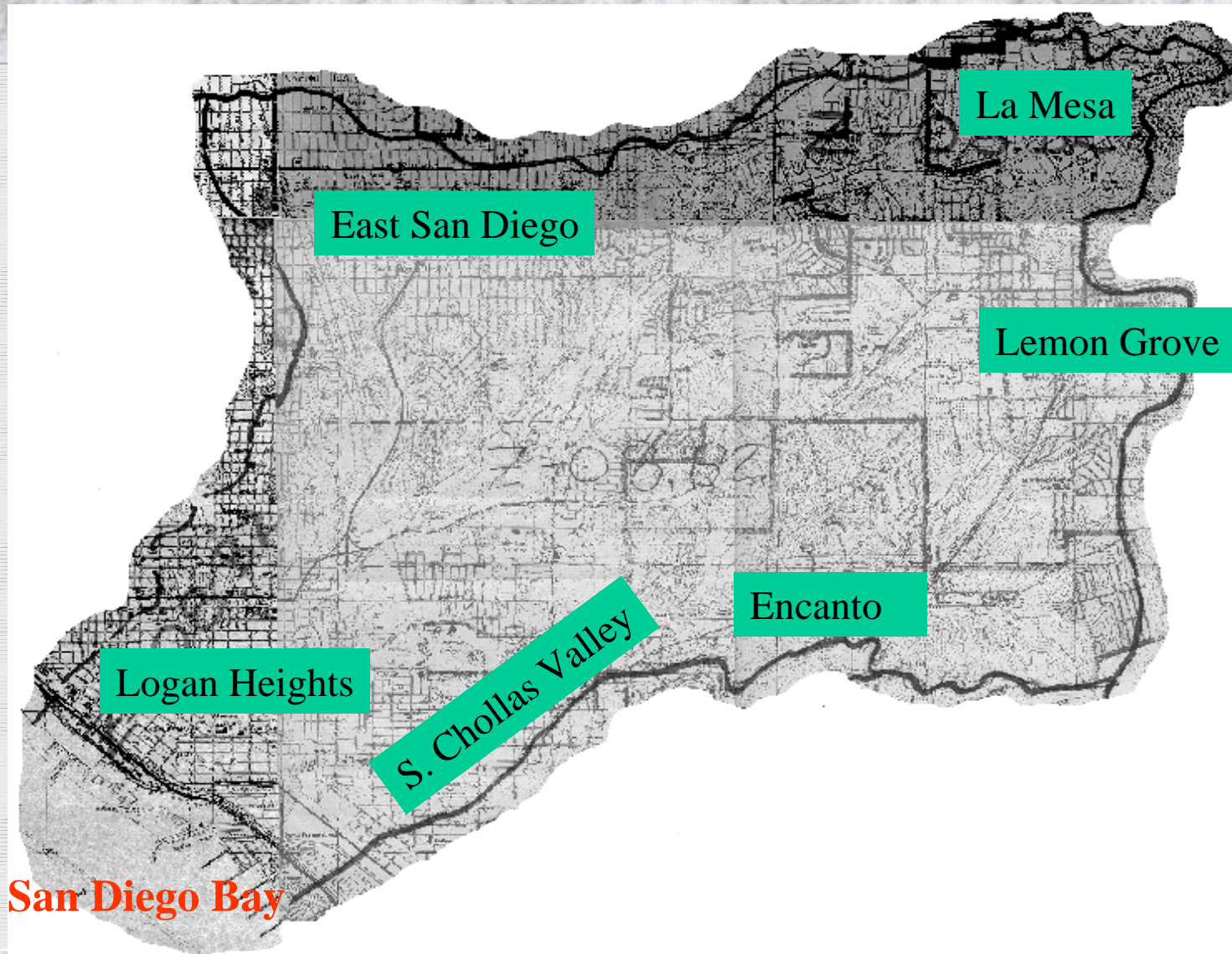
Stormwater Monitoring Program

- Estimated loads from specific storm events in lbs
- Estimated annual loads
 - Calculated average load per storm
 - Average number of storms per year - 18

Additional Sampling in 2000

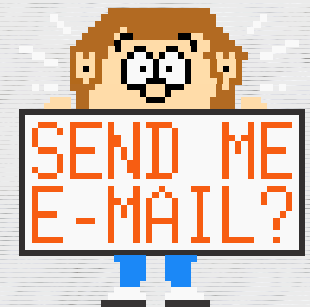
- Delevan
 - High dissolved copper and zinc
- Federal @ Home
 - High dissolved zinc
- Federal @ 94
- 69th

Chollas Creek Watershed



Public Participation Framework

- Format for comments to the staff
 - Written comments preferred
 - E-mail **olewk@rb9.swrcb.ca.gov**
- Web Site: **www.swrcb.ca.gov/rwqcb/**
- Periodic meetings and workshops
- Regional Board review process



Open Discussion Items

- Other pollution sources
- Data and/or information on sources
- Technical Advisory Committee
- General comments or questions

